

# 2024 SMU Research Recognition Reception

October 18, 2024

Hosted by:

Adam Sarty (*Associate VP Research/ Dean of Graduate Studies & Research*) and the  
FGSR Research Office team



## Research Ethics Board Members

Name	Faculty	Department	Type of Member
Rhoda Adeyemi	Arts	International Master of Teaching English	Graduate Student
Mark Barr	Arts	English	Faculty
Michele Byers	Arts	Women & Gender Studies	Faculty
Jim Cameron	Science	Psychology	Faculty
Leanna Closson	Science	Psychology	Faculty
Leesa Hamilton	NSCAD	Textiles and Fashion	Faculty
John Boddie	N/A	N/A	Community
Myles Davidson	Science	Psychology	Graduate Student
Maryam Dilmaghani	Sobey School of Business	Economics	Faculty
Mathew Reichertz	NSCAD	Drawing Lab	Faculty
Nicolas Roulin	Science	Psychology	Faculty
Marcus Sibley	Arts	Criminology	Faculty
Mark Fleming	Science	Psychology	Faculty
Mary Sheppard	Science	Chemistry	Faculty
Min-Jung Kwak	Arts	Geography & Environmental Studies	Faculty
Tatjana Takseva	Arts	English	Faculty
Arla Day	Science	Psychology	Faculty
Hao Lu	Sobey School of Business	Management	Faculty
Luke MacDonald	Science	Engineering	Faculty
Darrell Varga	NSCAD	Art and History Contemporary Culture	Faculty
Ron Russell	Science	Biology	Faculty
Theodore Lownie	Science	Applied Science	Graduate Student
Orshy Torok	Graduate Studies & Research	Research Ethics	Staff
Megan Walsh	Sobey School of Business	Management	Faculty

## Animal Care Committee

Name	Department/Affiliation	Position	Term
Susan Bjornson	Biology	Committee Chair	Jan 2023 – Dec 2025
Jim Gillis	Bedford Highway Veterinary Hospital	Consulting Veterinarian	On-going
Caila Henderson	Faculty of Science	Animal Care Coordinator/Aquatic Facility Manager (ex-officio)	On-going
Anne Dalziel	Biology	SMU Faculty Member experienced in animal-based research	Jan 2023 – Jan 2025 (at term limit)
Michelle Patriquin	Biology	SMU Faculty Member whose research activities do not involve or depend on the use of animals.	Nov 2022 – Nov 2025 (renewable)
Kevin Shaughnessy	Biology	MSVU Faculty Member	Sept 2022 – Sept 2025 (renewable)
MacAulay Harvey	Chemistry	SMU Graduate Student	Sept 2024 – Sept 2025 (renewable)
Heather McKinnon Ramshaw	Resident of Halifax County	Community Member	Oct 2023 – Oct 2026 (renewable)



# Canada Research Chairs



## Ivana Damjanov – Astronomy & Physics

Canada Research Chair in Astronomy and Astrophysics  
(Tier II), Natural Sciences and Engineering Research Council



## Marcin Sawicki – Astronomy & Physics

Canada Research Chair in Astronomy (*Tier I*), Natural  
Sciences and Engineering Research Council



## Christa Brosseau – Chemistry

Canada Research Chair in Sustainable Chemistry and  
Materials (*Tier II*), Natural Sciences and Engineering Research  
Council



## Mohammad Rahaman – Finance, Information Systems & Management Science

Canada Research Chair in International Finance and  
Competitiveness (*Tier II*), Social Sciences and Humanities  
Research Council



## Todd Ventura – Geology

Canada Research Chair in Organic Geochemistry and Marine Research (*Tier II*), Natural Sciences and Engineering Research Council



## Karly Kehoe – History

Canada Research Chair in Atlantic Canada Communities  
(Tier II), Social Sciences and Humanities Research Council







# Faculty of Arts

## Jonathan Fowler – Anthropology

*Terrestrial Recovery*, Henry M. Jackson Foundation for  
the Advancement of Military Medicine

*Halifax Memory Maps Project 2023*, Mitacs





## Diane Crocker – Criminology

*Alternative Response to Intimate Partner Violence in  
Halifax Regional Municipality, Young Women's  
Christian Association of Halifax (YWCA)*



## Alexandra Dodge – Criminology

*Combatting Technology-Facilitated Sexual Violence:  
Supporting Young People in Schools, Social Relationships  
and on Social Media*, Western University/Social Sciences  
and Humanities Research Council, Insight Grant



## Marcus Sibley – Criminology

*Examining community safety and surveillance groups  
in Canadian cities*, Social Sciences and Humanities  
Research Council, Insight Development Grant



## Luke Hathaway – English Language & Literature

*Canada Council for the Arts, Concept-to-Realization Grant*  
– to James Rolfe (composer) for development, workshop,  
and presentation of *Caeneus*: a new work of music theater  
(Luke Hathaway, librettist / co-producer)



## Teresa Heffernan – English Language & Literature

*AI everywhere: The Mythical and Religious Roots of  
Algorithmic Faith*, Social Sciences and Humanities  
Research Council, Insight Grant





## Goran Stanivukovic – English Language & Literature

*Wonder and the Romance in Early Modern England,*  
Social Sciences and Humanities Research Council,  
Insight Development Grant



## Mathew Novak – Geography & Environmental Studies

*Collaborative Projects on Old Growth forest Geospatial databases*, Department of Natural Resources and Renewables



## Danika van Proosdij – Geography & Environmental Studies

*Numerical Simulation of Tides and Storm Surges at Chignecto Isthmus During Post-Tropical Storm J Fiona,* National Research Council Canada

*Building Community Coastal Resilience in Nova Scotia with Green Shores for Homes,* Nova Scotia Federation of Municipalities

*Expanded Monitoring Program, Bathymetric Analysis and Habitat Monitoring Program Chiasson Office Barrier Beach,* New Brunswick, Fisheries and Oceans

*Making Room for Wetlands: St. Croix Edition,* Fisheries and Oceans

*Making Room for Wetlands: The Coastal Carbon Edition,* Environment and Climate Change Canada





## Danika van Proosdij – Geography & Environmental Studies

*Sedimentological analysis, technical review, and coastal geomorphological expertise for coastal research, CBWES*

*Protecting Coastal Wetlands in Nova Scotia through Stewardship and Collaboration, Coastal Action*

*Green Shores for Homes 2023-2025 project support, Stewardship Centre*

*Green Shores for Homes 2023-2026, Stewardship Centre*

*Understanding Coastal Ecosystem Response to Nature-Based Climate Adaptation Methods in a Cold Climate, Mitacs*

## Gavin Fridell – Global Development Studies

*Sustainable Trade, Between Token and Substantive Change: Rethinking North American Trade*, Social Sciences and Humanities Research Council, Insight Grant



## Blake Brown – History

*A history of Canadian medical malpractice law, 1935-1980*, Social Sciences and Humanities Research Council, Insight Grant



## Kirrily Freeman – History

*Allied Art Preservation, Recovery, and Restitution: The MFA&A in History and Memory*, Social Sciences and Humanities Research Council, Insight Grant

*The International Decade for People of African Descent*, Social Sciences and Humanities Research Council, Connection Grant



## Heather Green – History

*Mining Danger: Industrial Disease, Accidents, and Pollution  
in Canada's Mines and Mining Communities, 1870-1990,*  
Memorial University of Newfoundland/Social Sciences and  
Humanities Research Council, Insight Grant



## Karly Kehoe – History

*One People, Two Islands: The historic entanglement of the islands of Eigg, Scotland, and Cape Breton, Nova Scotia, 1790-1830*, Social Sciences and Humanities Research Council, Knowledge Synthesis Grant



## Timothy Stretton – History

*Patriarchy, Contract and Coverture in England, 1500-1800*, Social Sciences and Humanities Research Council, Insight Grant





## Peter Twohig – History

*“As important as machinery”*: Unions, advocacy and the making of healthy workplaces, 1950-1985, Social Sciences and Humanities Research Council, Insight Development Grant





## Myles McCallum – Modern Languages & Classics

*The Villa di Tito project: Re-examining Roman villas,*  
Social Sciences and Humanities Research Council,  
Insight Grant



## Sveva Savelli – Modern Languages & Classics

*Excavation and survey at Incononata 'Greca': a study of  
the indigenous-Greek frontier on the Ionian Coast,*  
McMaster University/Social Sciences and Humanities  
Research Council, Insight Grant



## Egor Tsedryk – Modern Languages & Classics

*Slavic languages across grammars and models: Slavic heritage languages, trends and synergies in Slavic linguistics, and the artificial intelligence challenge,*  
Social Sciences and Humanities Research Council,  
Connection Grant



## Paulo Ravecca – Political Science

*Countering Disinformation About The 2SLGBTQI+ Community in Rural Canada: Investigating How Older Canadians Interact with the Anti-SOGI Movement in Alberta, British Columbia, and Nova Scotia, Canadian Heritage*



## Margaret MacDonald – Study of Religion

*Expanding the family in Christianity and Islam:  
intersectional and decolonizing perspectives,*  
Social Sciences and Humanities Research  
Council, Insight Development Grant



## Alec Soucy – Study of Religion

*The Development and Impact of Thich Nhat Hanh,*  
Social Sciences and Humanities Research Council,  
Insight Grant





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# Sobey School of Business

## Matthew Boland – Accounting

*Taxes, Incentives, and Political Ideology*, Social Sciences and Humanities Research Council, Insight Development Grant

*Are firms ideologically fickle?* Social Sciences and Humanities Research Council, Insight Grant

*Enhancing Wellness Schedule with Machine Learning*, The National Research Council of Canada Industrial Research Assistance Program





## Mohamed Drira – Accounting

*Diversity Impression Management and Corporate Social Responsibility: A Machine Learning Approach*, Université du Québec à Montréal/Social Sciences and Humanities Research Council, Insight Grant



## Daphne Rixon – Accounting

*ACT.coop: Outreach to the Canadian Co-operative Sector*, Social Sciences and Humanities Research Council, Connection Grant



## Yigit Aydede – Economics

*Development Grant*, AtlanticOER



## Maryam Dilmaghani – Economics

*2SLGBTQ+ Poverty in Canada: Improving Livelihood and Social Wellbeing*, York University/Social Sciences and Humanities Research Council, Partnership Grant

*Using Microcredit to Financially Empower Sexual and Gender Minorities of Canada*, Social Sciences and Humanities Research Council, Partnership Engage Grant



## Sonja Novkovic – Economics

*Cooperative Board Decision Making*, Conestoga  
College/Social Sciences and Humanities Research  
Council, Insight Grant

*Governance of co-operative enterprises under pressure: A  
multilevel and holistic approach*, Ku Leuven, Research  
Found-Flanders (FWO)

*Impact of COVID-19 on the Co-operative Sector in Canada*,  
Co-operative and Mutuels Canada



## Tony Charles – Finance, Information Systems & Management Science

*Sustainability of Fisheries, Coasts and Oceans - Integrated Systems Approaches*, Natural Sciences and Engineering Research Council, Discovery Grant

*MEOPAR*, Dalhousie University/Natural Sciences and Engineering Research Council, Networks of Centres of Excellence

*Vulnerability to Viability (V2V): Global Partnership for Building Strong Small-Scale Fisheries Communities*, University of Waterloo/Social Sciences and Humanities Research Council, Partnership Grant



## Tony Charles – Finance, Information Systems & Management Science

*Årramät: Biodiversity, Conservation, and Indigenous Health & Well- being*, University of Alberta/Social Sciences and Humanities Research Council, New Frontiers in Research Funds

*Scoping study with compilation and analysis of case studies; on improving small-scale fisheries' equitable access to resources, and related approaches and indicators for monitoring socioeconomic dimensions relevant to fisheries management*, Food and Agriculture Organization of the United Nations

*A discussion paper on OECMs from a community perspective*, Food and Agriculture Organization of the United Nations



## Hamdi Driss – Finance, Information Systems & Management Science

*Mandatory Environmental Disclosure and the Cost of Capital: International Evidence*, Social Sciences and Humanities Research Council, Insight Development Grant





**Nabil El Meslmani –  
Finance, Information Systems &  
Management Science**

*Options Trading Around Accounting Restatements*, Social  
Sciences and Humanities Research Council, Insight  
Development Grant



## Mohammad Hendijani Zadeh – Finance, Information Systems & Management Science

*The Effect of Audit Quality on Auditee's Financial Policies:  
Evidence from Auditee's Liquidity Policy, Payout Policies,  
and Reliance on Trade Credit Financing, Social Sciences and  
Humanities Research Council, Insight Development Grant*



## **Davod Hosseini – Finance, Information Systems & Management Science**

*Reliability and Equity in Route Planning under  
Uncertainty and Risk*, Natural Sciences and Engineering  
Research Council, Discovery Grant



**Dawn Jutla –  
Finance, Information Systems &  
Management Science**

*Accounting and Financial process automation, Mitacs*



## Stephanie Kelley – Finance, Information Systems & Management Science

*Developing a Checklist to Reduce Unethical Applications of Artificial Intelligence in the Nova Scotian Legal Community*, Social Sciences and Humanities Research Council, Partnership Engage Grant

*Alliance Advantage Early Career Voucher*, Natural Sciences and Engineering Research Council



## Rahman Khokhar – Finance, Information Systems & Management Science

*Climate Change, Financial Risk, and Firm Behaviour,*  
McMaster University/Social Sciences and Humanities Research  
Council, Insight Development Grant





## Harvey Millar – Finance, Information Systems & Management Science

*A Study of the Factors Impacting the Participation of  
Black Entrepreneurs in High-Growth-High-Value-Added  
Industry Sectors*, Black Entrepreneurship Knowledge  
Hub, Carleton University



## Mohammad Rahaman – Finance, Information Systems & Management Science

*The Market for Private Credit and Environmental  
Disclosure Quality*, Social Sciences and Humanities Research  
Council, Insight Grant



**Majid Taghavi –  
Finance, Information Systems &  
Management Science**

*Healthcare resource planning for seniors and end-of-life patients*, Natural Sciences and Engineering Research Council, Discovery Grant



## Hai Wang – Finance, Information Systems & Management Science

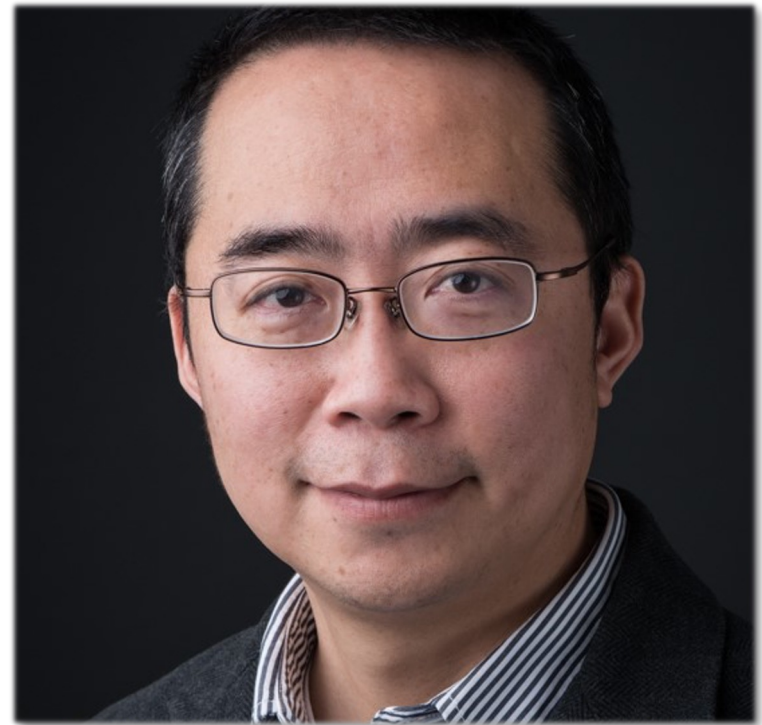
*Predictive Business Analytics for Incomplete Data*, Natural  
Sciences and Engineering Research Council, Discovery Grant



## Michael Zhang – Finance, Information Systems & Management Science

*Building a Strategy for Capacity and Resilience in  
Mental Health Organizations in Nova Scotia*, Social  
Sciences and Humanities Research Council, Partnership  
Engage Grant

*Leveraging Data Analytics for Enhanced Fund Services*,  
Mitacs



## Claudia De Fuentes – Management

*Impact assessment of government support for transformational innovation, Treasury Board Secretariat*

*Sustainable plastic through compostable bio-polymer material derived from seaweed, Mitacs*

*Understanding Customer Habits and the Need for A Digital Platform for Sustainable Exchange of Kids' Items, Mitacs*

*Investoready - Girls & Women, Mitacs*

*Ocean Straws, Mitacs*

*Understanding Gen Z Employee Challenges and Enhancing Workplace Culture through Skills-Based Volunteering, Mitacs*

*Atlantic Policy Research Initiative, Atlantic Canada Opportunities Agency*





## Ellen Farrell – Management

*Strengthening the support for BIPOC entrepreneurs in  
Canada, Mitacs*



## John Fiset – Management

*Development of a Deliberate Practice Scale and Model  
for Improving Focus and Commitment, Mitacs*



## Chantal Hervieux – Management

*Assisting Girls & Women Raise Venture Capital, Mitacs*

*Shifting the Paradigm: Achieving Equity in Executive  
Transitions for Emerging Leaders, Mitacs*

*Inspiring housing stability through tailored programs and  
support, Mitacs*

*Examining social innovation engagement models to  
promote social cohesion and equity via climate action,  
Mitacs*



## Feng Liu – Management

*Don't waste a crisis: CEO & board team strategizing in light of the Covid-19 pandemic*, Social Sciences and Humanities Research Council, Insight Grant



## Xiaoyu Liu – Management

*Will Good Names Go Wrong? Corporate Reputation,  
Idiosyncratic CSR Strategies and Negative Events,*  
Social Sciences and Humanities Research Council, Insight  
Grant



## Catherine Loughlin – Management

*Building Healthy Leadership Systems Starts with our Leaders*, Social Sciences and Humanities Research Council, Insight Grant

*Building Healthy Leadership Systems Starts with our Leaders*, Social Sciences and Humanities Research Council, Sport Participation Research Initiative





## Hao Lu – Management

*Why Do Canadian Firms Not Benefit from Corporate Social Performance?* Social Sciences and Humanities Research Council, Insight Development Grant



## Bui Petersen – Management

*Digital technology and work: A tool of domination and exploitation or a tool of opportunity and empowerment?*  
Social Sciences and Humanities Research Council,  
Insight Development Grant



## Vurain Tabvuma – Management

*Becoming Included through Inclusion: Redesigning employee on-boarding to increase wellbeing and performance*, Social Sciences and Humanities Research Council, Insight Grant

*Implementing the Trees Mobile App in Atlantic Canadian PSEs*, Mitacs



## Mahdi Tajeddin – Management

*Small-Scale Holder Farmers' Entrepreneurial Ecosystems  
in Tanzania (SFEET)*, Social Sciences and Humanities Research  
Council, Insight Development Grant



## Hadi Eslami – Marketing

*Investigating Canadian SME Innovation Disparities: A  
Multilevel Analysis*, Social Sciences and Humanities  
Research Council, Insight Grant



## Gordon Fullerton – Marketing

*Admin Systems Development, Mitacs*

*Evolving Therapy with Technology, Mitacs*





## Ethan Pancer – Marketing

*Developing a cost-production model for beekeepers in Nova Scotia to grow Canada's agri-food exports and economic prosperity in rural communities*, Social Sciences and Humanities Research Council, Partnership Engage Grant

*Feeding the economic recovery: Using social media to predict resilience in Canada's food service sector*, Toronto Metropolitan University/Social Sciences and Humanities Research Council, Insight Grant

*Understanding Consumer Responses to Innovation in the Age of Generative Artificial Intelligence*, Social Sciences and Humanities Research Council, Insight Grant



## Tiffany Vu – Marketing

*Beyond the bottom line: Toward a better understanding of when brands embrace a shared social responsibility mindset*, Dalhousie University/ Social Sciences and Humanities Research Council, Insight Grant





# Faculty of Science

## Gregory Christian – Astronomy & Physics

*Direct and Indirect Studies of Astrophysical  
Reactions*, Natural Sciences and Engineering Research  
Council, Discovery Grant, Subatomic Physics, Individual



## Ivana Damjanov – Astronomy & Physics

*Mass and structural growth of quiescent galaxies in the cosmic web over the last 6 billion years of cosmic time,*  
Natural Sciences and Engineering Research Council, Discovery  
Development Grant

*The evolution and the interplay of the luminous and  
dark matter content of massive (compact) galaxies,*  
Natural Sciences and Engineering Research Council, Discovery  
Grant



## Luigi Gallo – Astronomy & Physics

*The Ins and Outs of Black Hole Accretion*, Natural Sciences  
and Engineering Research Council, Discovery Grant

*Toward the event horizon with XARM*, Canadian Space  
Agency





## Vincent Hénault-Brunet – Astronomy & Physics

*Dynamically probing the dark side of globular clusters:  
from central black holes to the Milky Way halo, Natural  
Sciences and Engineering Research Council, Discovery Grant*

*CASTOR mission science development for Phase 0  
Support Activities for NRC-HAA (Saint Mary's University-  
NRC VICTORIA), National Research Council Canada*

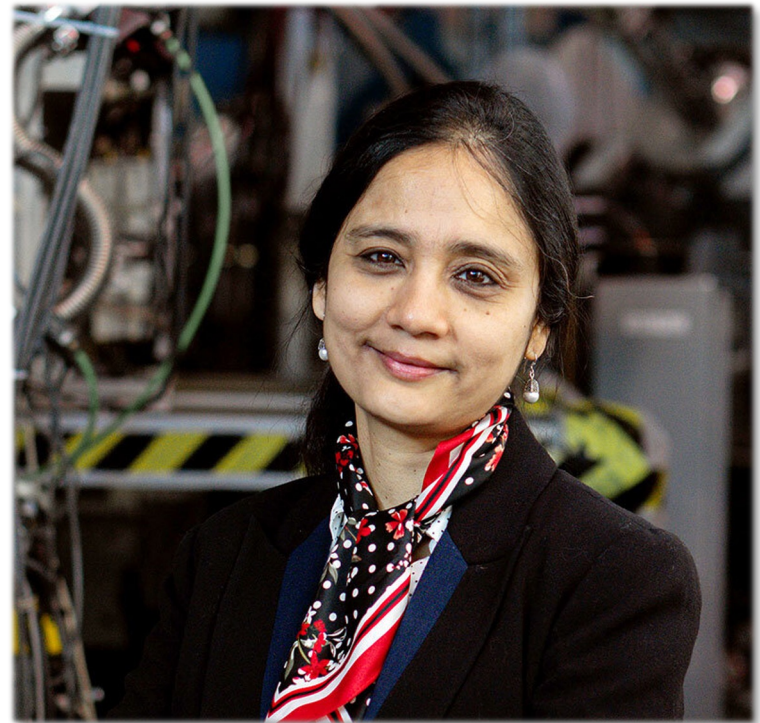


## Rituparna Kanungo – Astronomy & Physics

*Characterization of highly charged ion beams and post acceleration of neutron rich Sn isotopes using an electron beam ion source*, TRIUMF/Natural Sciences and Engineering Research Council, Discovery Grant, Subatomic Physics, Project

*IRIS : Charged particle reaction spectroscopy at ISAC*, Natural Sciences and Engineering Research Council, Discovery Grant, Subatomic Physics, Project

*Towards a new global view of nuclear structure and nuclear matter through nuclei with large neutron to proton ratio*, Natural Sciences and Engineering Research Council, Discovery Grant, Subatomic Physics, Individual



## **Marcin Sawicki – Astronomy & Physics**

*Exploring Cosmic Noon and Cosmic Dawn with JWST  
Guaranteed Time Observations*, Natural Sciences and  
Engineering Research Council, Discovery Grant

*CASTOR mission science development for Phase 0  
Support Activities for NRC-HAA (Saint Mary's University-  
NRC VICTORIA)*, National Research Council Canada

*Science Support for JWST's Canadian NIRISS Unbiased  
Cluster Survey (CANUCS)-JWST GTO Program*, Canadian  
Space Agency

*Completing the SMACS 0723 NIRISS WFSS EROs*,  
Canadian Space Agency

*Maximizing the Science Impact of NIRISS Pure Parallel  
Observations*, Canadian Space Agency



## Robert Thacker – Astronomy & Physics

*Toward more robust numerical and observational  
comparisons*, Natural Sciences and Engineering Research  
Council, Discovery Grant





## Colleen Barber – Biology

*European Starling (Sturnus vulgaris) Egg Collection to  
monitor contaminants in the Atlantic Region,*  
Environment and Climate Change Canada



## Susan Bjornson – Biology

*Factors that influence chronic disease in beneficial  
arthropods: The effect of stress and natural compounds,*  
Natural Sciences and Engineering Research Council,  
Discovery Development Grant





## David Chiasson – Biology

*Improving symbiotic performance for enhanced plant nutrition*, Natural Sciences and Engineering Research Council, Discovery Grant



## Anne Dalziel – Biology

*Mechanisms contributing to the evolution of salinity tolerance in euryhaline fish*, Natural Sciences and Engineering Research Council, Discovery Grant



## Timothy Frasier – Biology

*Understanding the strength and demographic consequences of inbreeding depression in the wild, and the subsequent implications for conservation, Natural Sciences and Engineering Research Council, Discovery Grant*

*Conservation genomics of the endangered North Atlantic right whale, Genome Atlantic and Research Nova Scotia*



## Ellie Goud – Biology

*Mining atmospheric CO<sub>2</sub>: Assessing the efficacy of novel carbon sequestration strategies in smelter damaged ecosystems to achieve net zero GHG emissions,*  
Nipissing University/Natural Sciences and Engineering Research Council, Alliance Grant

*Plant responses to multiple interacting stressors: ecological and evolutionary mechanisms,* Natural Sciences and Engineering Research Council, Discovery Grant



## Karen Harper – Biology

*Vegetation structure across forest edges in heterogenous landscapes*, Natural Sciences and Engineering Research Council, Discovery Development Grant

*Anthropogenic impacts on vascular plants and at-risk lichens in forested wetlands in Nova Scotia Project*, Department of Natural Resources and Renewables, Habitat Conservation Fund

*Green Jobs; Investigation of the ecology and conservation of plants lichens in Nova Scotia*, Project Learning Tree Canada



## Sean Haughian – Biology

*Cryptic Forest Lichen SAR Inventories: Survey and Reporting*, Environment and Climate Change Canada

*Living Lab – Nova Scotia*, Nova Scotia Federation of Agriculture

*Understanding Habitats and Locations of Threatened Lichens within Atlantic Canada Through the Creation of Species Distribution Models and their Model-derived Products*, Mitacs





## Jeremy Lundholm – Biology

*Plant biodiversity and spatial heterogeneity influences on vegetation restoration in coastal wetlands*, Natural Sciences and Engineering Research Council, Discovery Grant



## Genlou Sun – Biology

*Untangling the molecular mechanisms underlying adaptive difference between autopolyploid and its diploid ancestor: A case study of *Hordeum bulbosum* species*, Natural Sciences and Engineering Research Council, Discovery Grant

*Disentangling evolutionary role of whole genome duplication on adaptability of autopolyploid to abiotic stress, a case study on salt stress*, Natural Sciences and Engineering Research Council, Discovery Development Grant



## Kevin Vessey – Biology

*BioMass Crop Production on Marginal Lands in Nova Scotia, NS Innovation Hub Inc.*



## Laura Weir – Biology

*The influence of ecological variation on mechanisms of sexual selection and mating system structure*, Natural Sciences and Engineering Research Council, Discovery Grant



## Christa Brosseau – Chemistry

*Innovative Plasmonic Platforms for Advanced Molecular Sensing*, Natural Sciences and Engineering Research Council, Discovery Grant

*ACESCentre: Atlantic Canada Environmental and Sustainable Chemistry Centre*, Memorial University of Newfoundland/ Research Nova Scotia

*Advancing an Ionic Thiourea Extractant (ITE): A Sustainable Replacement for Cyanide in the Recovery of Gold and Silver from Low-Grade Ore*, Department of Natural Resources and Renewables

*Sample preparation and analysis*, ClearDynamic



## Christa Brosseau – Chemistry

*Investigating biomarkers that require an antibody modification, Myomar Molecular*

*Determination of compounds in birch bark extract using 2D-HPLC coupled with QTOF-MS methodology, The National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)*

*Advancement of a Precision Diagnostic Tool for Detecting Muscle Atrophy-Associated Small Molecules, Mitacs*



## Jason Clyburne – Chemistry

*Preparation, isolation, and characterization of fragile acid-base complexes including intermediates of potential biological relevance*, Natural Sciences and Engineering Research Council, Discovery Grant

*Preparation, characterization, and reactivity of small electrophilic cations*, Natural Sciences and Engineering Research Council, Discovery Grant



## Jane Ferguson – Chemistry

*Thermophysical Properties of Molten Salts*, Natural  
Sciences and Engineering Research Council, Discovery Grant

*Thermophysical Properties of Molten Salts*, Natural  
Sciences and Engineering Research Council, Early Career  
Researcher (ECR) Supplement



## Jason Masuda – Chemistry

*Stabilization of Unique Chemical Bonding  
Environments and Exploration of Small Molecule  
Reactivity*, Natural Sciences and Engineering Research  
Council, Discovery Grant

*Ylid functionalization of carbon suboxide*, Mitacs



## Robert Singer – Chemistry

*Advancing an Ionic Thiourea Extractant (ITE): A Sustainable Replacement for Cyanide in the Recovery of Gold and Silver from Low-Grade Ore*, Department of Natural Resources and Renewables

*Understanding the composition and evolution of hydrocarbon-rich fluids preserved as macroscopic fluid inclusions in bitumen-quartz-carbonate veins: Albert Formation, Southern New Brunswick*, New Brunswick Department of Natural Resources & Energy Development

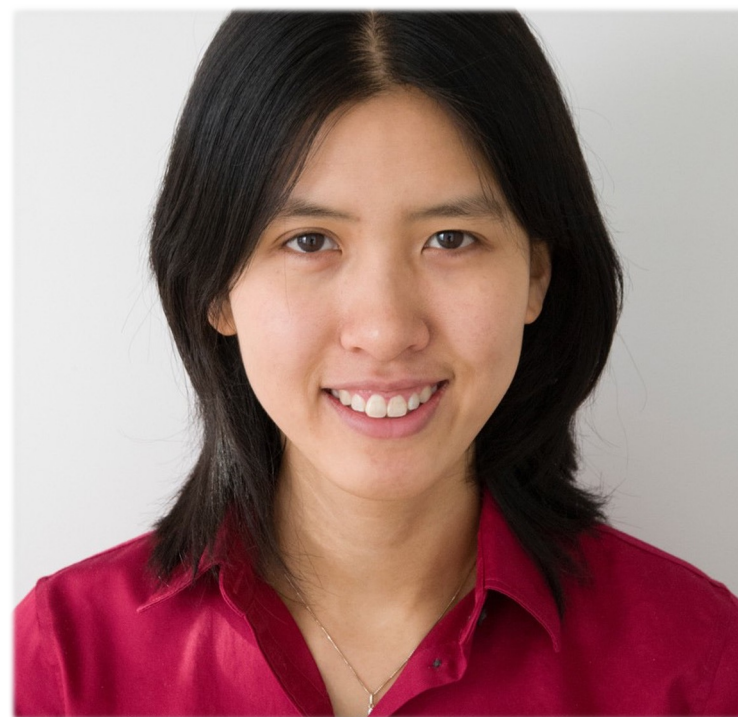


## Clarissa Sit – Chemistry

*The chemical origins of biological interactions: an evolutionarily refined approach for natural products discovery*, Natural Sciences and Engineering Research Council, Discovery Grant

*Training Program in BioActives*, Dalhousie University/  
Natural Sciences and Engineering Research Council, Collaborative Research and Training Experience (CREATE)

*Metabolomic analysis of medicinal plants, endophytes, and commercially available extracts*, Mitacs





## Danielle Tokarz – Chemistry

*Controlling the outcome of reactions in macromolecular systems: Measurement of structural dynamics during synthesis and degradation in biologically relevant polymers*, Natural Sciences and Engineering Research Council, Discovery Grant

*Investigating Otoconia Ultrastructure during Degeneration*, Research Nova Scotia, New Health Investigator Grant

*Researching, designing, and simulating a first-of-its-kind plastic recycling facility processing 1.2 million pounds of plastic pellets per year*, Mitacs





## Adel Merabet – Engineering

*Optimization, Management, and Supervision of Clustered Microgrids for Sustainable Energy in Smart Communities and Cities*, Natural Sciences and Engineering Research Council, Discovery Grant

*Towards a Circular, Sustainable, and Zero-Waste Construction Industry: Investigating Innovative and Efficient Solutions for Construction Composite Products Recycling with Technical, Environmental, and Economic Considerations*, Mitacs



## Jason Rhinelandt – Engineering

*Web Crawler*, The National Research Council of Canada  
Industrial Research Assistance Program (NRC-IRAP)



## Samuel Veres, Dean of Science – Engineering

*Development, control, and functional significance of variations in collagen fibril nanostructure, with application to the creation of novel biomaterials*, Natural Sciences and Engineering Research Council, Discovery Grant



## Erin Cameron – Environmental Science

*Soil invertebrates under global change*, Natural Sciences and Engineering Research Council, Discovery Grant

*Soil invertebrates under global change*, Natural Sciences and Engineering Research Council, Northern Research Supplement

*Indigenous Knowledge of Berries in the Northwest Territories*, Environment and Climate Change Canada

*Shallow shotgun metagenomic eDNA biomonitoring of Atlantic Canada's grazed (agro) ecosystems*, Genome Atlantic/Research Nova Scotia

*Understanding and managing the spread of invasive jumping worms in New Brunswick*, New Brunswick Wildlife Trust Fund

*Global change research*, ECO Canada



## Linda Campbell – Environment Science

*Developing an in-situ risk management strategy for enhancing natural recovery of highly contaminated gold-mine-tailing impacted wetlands*, Natural Sciences and Engineering Research Council, Alliance Grant

*Developing an in-situ risk management strategy for enhancing natural recovery of high contaminated gold mine tailing impacted wetlands*, Atlantic Mining NS

*Amphibian and reptile monitoring and bioaccumulation assessments in relation to historical gold mine tailings*, Build Nova Scotia

*Report on Accessible & Inclusive Service*, Public Services and Procurement Canada



## Linda Campbell – Environment Science

*Food Web Analysis –LURS*, Fisheries and Oceans Canada

*Red Swamp Crayfish Population Study*, Fisheries and Oceans Canada

*Crayfish Removal and Ecosystem Impact Study in Maritime Region*, Fisheries and Oceans Canada

*Geochemistry of historical gold mine tailings in wetland sediments & testing remediation amendment applications*, Mitacs



## Aldona Wiacek – Environmental Science

*Integrated measurements of GHG emissions at an intermediate port*, Natural Sciences and Engineering Research Council, Alliance Missions

*Atmospheric composition measurements for air quality and climate studies*, Natural Sciences and Engineering Research Council, Discovery Grant

*The HAWC satellite mission: High-altitude Aerosols, Water vapour, and Clouds*, Canada Foundation for Innovation (CFI)



## Erin Adlakha – Geology

*Linking high spatial resolution accessory mineral chemistry and geochronology to large-scale ore-forming hydrothermal processes in the crust, Natural Sciences and Engineering Research Council, Discovery Grant*

*Critical mineral deposits associated with metasomatic iron alkali calcic (MIAC) systems of the Cobequid-Chedabucto fault zone (CCFZ), Nova Scotia, Department of Natural Resources*



## Jacob Hanley – Geology

*Intrusion-related critical metal deposits throughout the Appalachian orogen: constraining melt fertility and the magmatic-hydrothermal transition*, Natural Sciences and Engineering Research Council, Discovery Grant

*Integrating melt and fluid inclusion geochemistry with zircon geochemistry to evaluate end-member magmas, volatile exsolution and critical metals fertility in the Davis Lake Pluton, Port Mouton Pluton, and Mersey Point Ultramafic Dyke*, Department of Natural Resources and Renewables



## Dawn Kellett – Geology

*Faults and fluids in accretionary orogens*, Natural Sciences  
and Engineering Research Council, Discovery Grant

*Fault zone reactivation and structural inheritance in  
accretionary orogens*, Mitacs





## Mitchell Kerr – Geology

*Understanding the composition and evolution of hydrocarbon-rich fluids preserved as macroscopic fluid inclusions in bitumen-quartz-carbonate veins: Albert Formation, Southern New Brunswick, New Brunswick  
Department of Natural Resources & Energy Development*



## Todd Ventura – Geology

*Multi-Molecular Characterization of Complex Matrices for the Detection of Geochemical Processes*, Natural Sciences and Engineering Research Council, Discovery Grant

*Triassic-Early Jurassic Central Atlantic and mid-Cretaceous Scotian Margin Geochemical, Organic, and Biostratigraphic Events – a test case for molecular sequence stratigraphy*, Mitacs

*Lipidomics and the Derisking of Deep Ocean Petroleum Exploration*, Mitacs





## Shawna White – Geology

*Understanding how tectonic inheritance controls the evolution of mountain belts*, Natural Sciences and Engineering Research Council, Discovery Grant

*Determining Control and Timing of Gold Mineralization in the southern Long Range Mountains, west NL.*, Fishhawk Gold Corp



## Yasushi Akiyama – Mathematics & Computing Science

*Creating an interactive user interface for Science  
Atlantic, Mitacs*



## Manuela Girotti – Mathematics & Computing Science

*Integrable Probability and Universality in  
Mathematical Physics and Machine Learning*, Natural  
Sciences and Engineering Research Council, Discovery Grant



## Mengjun Hu – Mathematics & Computing Science

*Explainable three-way data analytics*, Natural Sciences and Engineering Research Council, Discovery Grant

*Explainable three-way data analytics*, Natural Sciences and Engineering Research Council, Early Career Researchers (ECR)



## Somayeh Kafaie – Mathematics & Computing Science

*Semantic Web Analysis over the Nova Scotia Open Data*, Cape Breton University/ Natural Sciences and Engineering Research Council, Discovery Grant

*Development of Large Language Model for visitor engagement*, The National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)





## Stavros Konstantinidis – Mathematics & Computing Science

*Representational, Algorithmic and Applied Aspects of  
Word Relations*, Natural Sciences and Engineering Research  
Council, Discovery Grant





## Pawan Lingras – Mathematics & Computing Science

*Generalized sequential data mining using enhanced object representations based on preliminary clustering profiles,* Natural Sciences and Engineering Research Council, Discovery Grant

*Enhancing Unstructured Survey Analytics using Sentiment and Predictive NLP,* The National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)

*Enhancing Medical Data Analysis and Processing,* Mitacs

*Predictive Analytics for B2B SaaS Platform,* Mitacs

*Prescriptive Machine Learning in Pediatric Cardiology,* Mitacs

*Design and Deployment of a Generative AI Platform,* Mitacs



## Pawan Lingras – Mathematics & Computing Science

*Platform enhancement for government services using data analytics, Mitacs*

*Financial Portfolio Reconciliation using Deconstructed Deep Learning, Mitacs*

*Data summarization and visualization system for evidence-based decision making, Mitacs*

*Product Development to Scale Low Carbon Business Intelligence, Mitacs*

*IT Internship - Development to Support First Nations and Municipal Policing, Mitacs*

*Sentiment Analysis to Replace Rigid Surveys into Automated Adaptive Interviews, Mitacs*

*Artinus Cost-effective NLP solutions for digitization, translation, and insights of domain specific corpora, Mitacs*

*Evidence-driven strategies for successful schooling outcomes of learners of African descent in Nova Scotia, Mitacs*

*DevOps of Descriptive and Predictive Analytics for Efficient Energy Supply and Work and Asset Management, Mitacs*

## Mitja Mastnak – Mathematics & Computing Science

*Hopf algebras, combinatorics, and operator theory,*  
Natural Sciences and Engineering Research Council,  
Discovery Grant



## Paul Muir – Mathematics & Computing Science

*Numerical Software for the Adaptive Error Controlled  
Solution of Ordinary and Partial Differential  
Equations*, Natural Sciences and Engineering Research  
Council, Discovery Grant



## Jiju Poovvancheri – Mathematics & Computing Science

*Towards Seamless Interaction and Navigation in Virtual Worlds using Multiple 3D Sensors, Natural Sciences and Engineering Research Council, Discovery Grant*

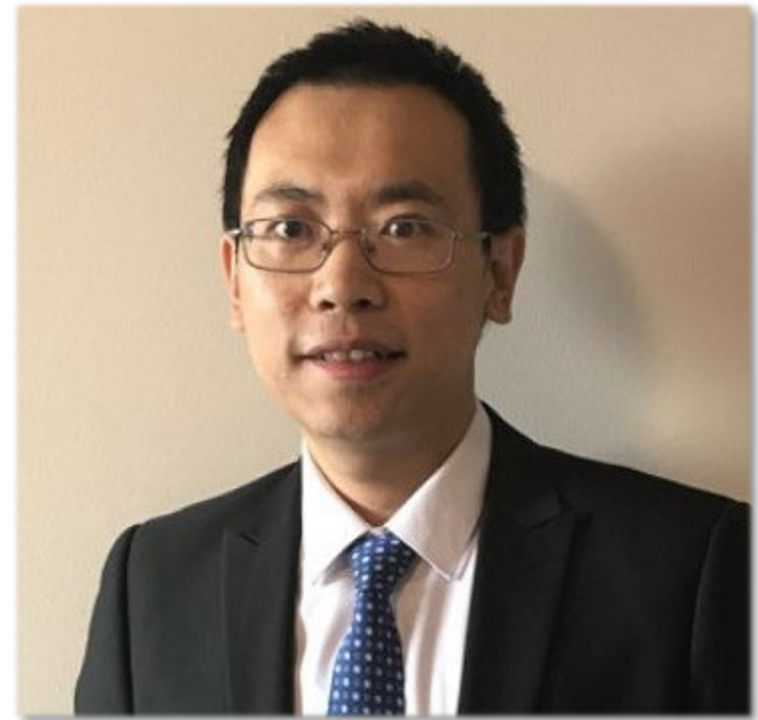
*Deep Learning based Real-time Object Recognition and Tracking for Immersive Training and Maintenance Applications, Mitacs*



## Xichen Zhang – Mathematics & Computing Science

*Privacy-Preserving Edge-Cloud Collaboration in Mobile  
Crowdsensing*, Natural Sciences and Engineering Research  
Council, Discovery Grant

*Privacy-Preserving Edge-Cloud Collaboration in Mobile  
Crowdsensing*, Natural Sciences and Engineering Research  
Council, Early Career Researchers (ECR)





## Arla Day – Psychology

*Beyond Disability Management and Towards Health,*  
Mitacs



## Maryanne Fisher – Psychology

*An analysis of physical aggression for conflict resolution:  
The Takanakuy of Peru*, Social Sciences and Humanities  
Research Council, Insight Development Grant



## Mark Fleming – Psychology

*The adaption and delivery of the Emera supervisor safety leadership development program for NSP, Nova Scotia Power*

*Application of Short Form Methodologies in the Workplace: Testing Survey Structure, Delivery Methods and Frequency of Data Collection, Mitacs*



## Debra Gilin – Psychology

*Research to explore opportunities to leverage external innovation funding for positions/work related to systemic design and behavioural insights, Service Nova Scotia*

*Psychologically safe and inclusive workplaces: Evidence based assessment and intervention, Mitacs*

*Assess with the best: New product development and continuous improvement of the SuccessFinder psychometric assessment, Mitacs*



## Camilla Holmvall – Psychology

*Examining how workplace incivility impacts leader well-being: The moderating role of leader gender, Social Sciences and Humanities Research Council, Insight Grant*





## Kevin Kelloway – Psychology

*When Dark Meets Dark: Experienced aggression and the Dark Tetrad*, Social Sciences and Humanities Research Council, Insight Grant

*Inconsistent Leadership: Scale Development and Measurement*, York University/Social Sciences and Humanities Research Council, Insight Development Grant

*Culture Index Validation and Relationship Analysis: Enhancing Organizational Culture Assessment*, Mitacs





## Dayna Lee-Baggley Psychology

*Creating culturally sensitive, trauma informed, evidence-based tools with First Nation communities, Employment and Social Development of Canada*



## Eden-Raye Lukacik – Psychology

*What are the effects of asynchronous video interviewing on job applicants with disabilities?* Social Sciences and Humanities Research Council, Insight Development Grant



## Nicolas Roulin – Psychology

*Innovations in Interviewing: Foundational Research  
Exploring Asynchronous Video Interviews*, Social  
Sciences and Humanities Research Council, Insight Grant

*Exploring the benefits and risks associated with  
online preparation resources for situational judgment  
tests*, Mitacs



## Steven Smith – Psychology

*Understanding Mental Health Support Standards in Atlantic Canadian Colleges and Universities*, Social Sciences and Humanities Research Council, Partnership Engage Grant

*The Effects of the Virtual Environment on Cohort Training Models*, Mitacs

*Creating an interactive user interface for Science Atlantic*, Mitacs



## Skye Stephens – Psychology

*Talking for Change*, Centre for Addiction and Mental  
Health



## Marguerite (Meg) Ternes – Psychology

*Lie Detection in the criminal justice system: Exploring deception clues in field and laboratory studies*, Social Sciences and Humanities Research Council, Insight Grant

